

Lockheed Martin
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DATE: March 10, 2012

TO: Kelley Chase, EPA Region 3 OSC
Cynthia Caporale, EPA Region 3 OASQA

THROUGH: **Ex. 4 - CBI** SERAS Program Manager

FROM: **Ex. 4 - CBI** SERAS QA/QC Officer

SUBJECT: VERIFICATION/COMPLETENESS CHECK – DIMOCK, PA LABORATORY DATA
[File 12034c_rsk 175.pdf](#), [File 12034c_tph_purgeable.pdf](#), [File 12034c_tph_extractable.pdf](#)
[File 12037a_rsk 175.pdf](#), [File 12037a_tph_purgeable.pdf](#), [File 12037a_tph_extractable.pdf](#)
[File 12038c_rsk 175.pdf](#), [File 12038c_tph_purgeable.pdf](#), [File 12038c_tph_extractable.pdf](#)
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INTRODUCTION

On March 10, 2012, a review of the case narratives and corresponding certificates of analysis from the EPA R9 (Dissolved Gases, GRO, DRO/ORO Reports Posted Mar 02) was reviewed at the SERAS facility in accordance with the Follow-Up Verification/Completeness Check agreed upon during our teleconference on Wednesday 2/8/12.

The assumptions for this review include the following: 1) Case narratives from the Regional labs and/or subcontract labs have been reviewed in accordance with Regional or Environmental Services Assessment Team (ESAT) protocols and contain all pertinent and complete information to conduct the completeness check. SERAS will base this review on the information provided by the laboratory and not on an actual data package; and 2) SERAS will relay any “red” flags to the EPA R3 personnel to resolve and determine data usability.

OBSERVATIONS

In accordance with Table 1 – Field and QC Sampling Summary (Rev01 - 2/3/12), Table 2 – Sample Analytical Requirements Summary (Rev01 – 2/3/12), Methods for Groundwater and Surface Water Samples and the R9 SOPs for dissolved gases (SOP 325), Gasoline Range Organics (SOP380) and Diesel Range Organics (SOP 385), the following observations were noted and need to be clarified/resolved.

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1. For dissolved gases, the following qualifications should be applied to the following samples as noted based on the blank results (method, field, in that order) in accordance with the National Functional Guidelines: Methane 1.4U for sample FB08 (based on TB14) and methane 6.4U for samples HW42, HW46, HW46-P, TB15 and FB09 (based on TB16). Retain the “J” flags in the result qualifier column in Scribe for samples TB14, HW42z and TB16. The remaining “U” qualifiers for ethane and ethene should be carried over into the results qualifier column in Scribe.
2. It is assumed that all instrument QC (RSD, %D, retention time windows, LCV, SCV, etc) were performed and within the acceptance criteria listed in the SOP or the outliers had no impact on the data.

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1. It is assumed that all instrument QC (RSD, %D, retention time windows, LCV, SCV, etc) were performed
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and within the acceptance criteria listed in the SOP or the outliers had no impact on the data.

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1. For dissolved gases, the following qualifications should be applied to the following samples as noted based on the blank results (method, field, in that order) in accordance with the National Functional Guidelines: Methane 1.2U for samples HW28a-P, HW40-P, HW28a, HW28b-P, TB22 and TB21 (based on the MB), methane 3.2U for sample HW40 (based on FB09), methane 2.4U for FB10 and HW09-P (based on TB19). Retain the "J" flags in the result qualifier column in Scribe for TB19, TB17, TB20, HW41, HW41-P, TB18 and HW09. The remaining "U" qualifiers for ethane and ethene should be carried over into the results qualifier column in Scribe.
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1. For dissolved gases, the following qualifications should be applied to the following samples as noted based on the blank results (method, field, in that order) in accordance with the National Functional Guidelines: Methane 1.2U for samples EB02, HW45, HW45-P, TB24, HW43, HW43-P and TB23 (based on the method blank). The remaining "U" qualifiers for ethane and ethene should be carried over into the results qualifier column in Scribe.
2. It is assumed that all instrument QC (RSD, %D, retention time windows, LCV, SCV, etc) were performed and within the acceptance criteria listed in the SOP or the outliers had no impact on the data.

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1. For dissolved gases, the following qualifications should be applied to the following samples as noted based on the blank results (method, field, in that order) in accordance with the National Functional Guidelines: Methane 1.2U for samples FB11, TB26, TB28, FB12, TB27, TB29, FB13, TB30 (based on the method blank). Retain the "J" flags in the result qualifier column in Scribe for samples TB25 for methane and HW47-P for ethane. Remove the "J" flag for HW38-P for methane. The remaining "U" qualifiers for ethane and ethene should be carried over into the results qualifier column in Scribe.

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cc: Ex. 4 - CBI SERAS Project Officer
John Gilbert, ERT WAM
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Ex. 4 - CBI SERAS Task Leader

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